



KÖSTER Turbo Binding Agent

Technical Data Sheet C 716 025

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Fast setting special binding agent for mortars with very high early strength development

Features

KÖSTER Turbo Binding Agent is a special cement based on calcium sulfoaluminate clinker. Mortars made with KÖSTER Turbo Binding Agent develop a very high early strength and in the process exhibit very low shrinkage. They can be quickly worked over and have an early loading capacity. During production approximately 30% less CO₂ is released as compared to a pure portland cement.

Technical Data

Recoatable (+ 20 °C)	after approx. 30 min.
Compressive strength (3 h)	greater than 15 N / mm ²
Compressive strength (1 d)	greater than 20 N / mm ²
Compressive strength (7 d)	greater than 30 N / mm ²
Compressive strength (28 d)	greater than 35 N / mm ²
Pot life (+ 20 °C)	approx. 15 min.
Max. aggregate size	≤ 0.2 mm

All values given represent when mixed with sand in a ratio of 1:3 by weight and with a w/c ratio of approx. 0.4.

Fields of Application

KÖSTER Turbo Binding Agent is for mixing with sand especially for application of screed areas that require early use such as floors, streets, and driveways.

Substrate

The surface has to be sound and solid, free of oil and grease, residual adhesions and cement residue. The material can be applied to all concrete substrates. The pull off strength of the substrate must have a minimum of 1.5 N / mm². Directly before the application, pre-wet the substrate so that it is matt moist. Avoid standing water. Absorptive and salt contaminated substrates are to be primed with approximately 200 g / m² of KÖSTER Polysil TG 500.

Application

General: Mix 1 part KÖSTER Turbo Binding Agent with 3 to a maximum of 5 parts screed sand by weight, according to maximum aggregate size and required strength. Add water calculating for the moisture in the sand to a maximum water / binding agent ratio of 0.5.

Example: Screed with a sand grading curve of 0/4 mm, and a mixing ratio of 1:4 by weight.

Mix 7.0 - 11.0 kg of water (allowing for the measured sand moisture content) with 25 kg KÖSTER Turbo Binding Agent and 100 kg screed sand, graded 0/4. Mix for a minimum of 3 minutes with a screed or compulsory mixer until a homogenous, earth-dry or plastic consistency has been reached.

The mortar may not be too dry so that it may be distributed, compacted, and floated within the pot life of 15 minutes.

Additional components per 25 kg bag of KÖSTER Turbo Binding Agent

KÖSTER Turbo Retarding Agent 25 g

Addition to the freshly mixed mortar increases the pot life by approx. 10 minutes. Add a maximum of 3 units.

KÖSTER Turbo Superplasticizer 65 g

Mix a maximum of 4.0 liters of water to a 25 kg bag of KÖSTER Turbo Binding Agent and the respective screed sand with 2 bags of KÖSTER Superplasticizer. Subsequently add the KÖSTER Turbo Superplasticizer and mix until a flowable consistency has been reached, minimum 3 minutes mixing time. Process the material immediately after mixing.

KÖSTER Turbo Corrosion Protection 100 g

Mix a maximum of 4.0 liters of water to a 25 kg bag of KÖSTER Turbo Binding Agent and the respective screed sand with 2 bags of KÖSTER Turbo Corrosion Protection. For use with direct contact to metal.

Aftertreatment

Cure the installed material by covering with polyethylene sheeting.

Consumption

Approx. 1.9 kg / l void

Cleaning

Clean tools immediately after use with water.

Packaging

C 716 025 25 kg bag

Storage

In originally sealed packaging the material can be stored for a minimum of 12 months.

Safety

Use gloves, goggles, mask, and all Personal Protective Equipment required by governmental, state, and local regulations while processing.

Related products

KÖSTER Turbo Mortar F	Prod. code C 516 025
KÖSTER Turbo Mortar M	Prod. code C 517 025
KÖSTER Turbo Retarding Agent	Prod. code C 718 025
KÖSTER Mortar Boost	Prod. code C 791 010
KÖSTER Polysil TG 500	Prod. code M 111

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.